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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/716,882

11/20/2003

Jan Mulder

4590-235

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33308 7590 01/31/2007
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EXAMINER

EPPI, TODD MICHAEL

ART UNIT

PAPER NUMBER

3632

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

01/31/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/716,882	MULDER, JAN	
	Examiner	Art Unit	
	Todd M. Epps	3632	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 November 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 and 5-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, and 5-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This is the third Office Action for serial number 10/716,882, Elementary And Complex Coupling Devices, And Their Use, filed on November 20, 2003.

Claim Rejections - 35 USC § 112

Claims 1-3, and 5-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, with all hinging means allow rotation around an axis with respect to what ground? It is not clear.

Regarding claim 11, which is depending on claim 1, it is not understood how all three elementary coupling devices with all hinging means allow rotation around an axis.

Claims 2-3, 5-10, and 12-23 are rejected as inherently depending on rejected claim 1.

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-2, 5-18, and 20-23 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 3,419,238 to Flory.

Flory '238 discloses an elementary coupling device, comprising a means for stiffening the elementary coupling device against torsion (fig. 1), linking means (5,6,7,15,16,17) for linking the means for stiffening to a second object (1) to be coupled,

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first hinging (2,3,4) means for hinging each means for linking directly or indirectly on the second object (1) to be coupled to be coupled, second hinging (8,9,10,12,13,14) means for hinging the means for stiffening on each means for linking, third hinging (18,19,20) means for hinging the stiffening means (11) directly or indirectly on a first object (37) to be coupled; wherein all hinging means allow rotation around an axis; wherein the stiffening means is a box (11); wherein the third hinging means allows rotation around one axis and the axis crossing the centres of the third hinging means; wherein third hinging means allows translational movement (fig. 1); a connecting means (fig. 1 – below 2nd hinging means) to connecting which the means for linking are connected, the connecting means being hinged to the linking means by the first and second hinging means being fixed on the second object (1) to be coupled; a first connecting means (fig. 1 – above 2nd hinging means) for connecting the first object (21) to be coupled, the first connecting means being hinged to the stiffening means (11) by the third hinging means at two separate points; wherein the linking means rest on the second connecting means, and first connecting means are means for supporting the first object (21); coupling device further comprising three elementary coupling devices (fig. 1); wherein the three elementary devices are mounted relatively to each other so that the axes of all elementary coupling devices are mutually perpendicular, these elementary axes being the axes normal to the planes defined by the two means for linking of each elementary coupling device (fig. 1); wherein the angles between the axes of the linking means of the three elementary coupling devices and the vertical direction are equal to \arccos (fig. 1); further comprising means for absorbing vibrations and shocks (column 2, lines 10-

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40); further comprising one means for absorbing vibrations and shocks in between each group of two elementary coupling devices (fig. 1); further comprising means for covering the complex coupling device on its sides (fig. 1); wherein the means for supporting is common to the three elementary coupling devices; and wherein the supporting means is specially adapted for sensor equipment (column 1, lines 29-30).

Claim Rejections - 35 USC § 103

Claims 3 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Flory '238.

Flory '238 fails to disclose wherein the stiffening means is a hollow box. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified a box of Flory '238 to be a hollow box wherein doing so would provide thereof to enhance the structural strength and rigidity of the box.

Regarding claim 19, Flory '238 fails to disclose wherein the means for supporting is an inverted cone with six-sided plate. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the shape to a cone with the six-sided plate wherein doing so would provide thereof an additional strength on top for a bigger sensor equipment placed on it.

Response to Arguments

Applicant's arguments filed November 14, 2006 have been considered however, the rejection of claims 1-3, and 5-23 has been withdrawn.

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Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Todd M. Epps whose telephone number is 571-272-8282. The examiner can normally be reached on M-F (7:30-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Friedman can be reached on 571-272-6842. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TME

Todd M. Epps
Patent Examiner
Art Unit 3632
January 25, 2007


A. JOSEPH WUJCIAK III
PRIMARY EXAMINER
TECHNOLOGY CENTER